Patent claims

- A strand-guiding roll for supporting and guiding cast metal strands in a continuous installation, having a central rotatable shaft (1) and having at least one roll shell (3) supported fixed against rotation on this shaft, characterized in that the roll shell (3) is supported via support rings (4) 10 on the shaft (1), in that an annular space (6) which is axially delimited by the support rings (4) is formed between the shaft (1) and the roll shell (3), and the annular space (6) is designed as a coolant conduit.
- 2. The strand-guiding roll as claimed in claim 1, characterized in that sealing elements (20, 21), preferably sealing rings inserted in annular grooves, are arranged between the support rings (4) and the roll shell (3) and between the support rings (4) and the central shaft (1).
- 3. The strand-guiding roll as claimed in claim 1 or 2, characterized in that the annular space (6), which is designed as a coolant conduit, is connected to a coolant line (12, 18) arranged in the central shaft (1) via radial branch lines (13, 17) for supplying and discharging a coolant.
- 4. The strand-guiding roll as claimed in one of the preceding claims, characterized in that the radial branch lines (13, 17) open out within the longitudinal extent of the support rings (4) into an annular groove (14, 16) in the support ring (4) which is open toward the annular space (6) via a multiplicity of outlet openings (19).
 - 5. The strand-guiding roll as claimed in one of the preceding claims, characterized in that the roll shell (3) is secured against rotation with respect to the

- shaft (1) by a rotation-preventing means (5), preferably a feather key, and the rotation-preventing means (5) passes through the annular space (6).
- 5 6. The strand-guiding roll as claimed in claim 1, characterized in that two support rings (4), which support a roll shell (3) on the shaft (1), are connected to form a support-ring sleeve (26), and an annular space (6), the axial extent of which is delimited by the support rings (4), is formed between the roll shell (3) and the support-ring sleeve.
- 7. The strand-guiding roll as claimed in claim 6, characterized in that sealing elements (20, 21), preferably sealing rings inserted in annular grooves, are arranged between the support rings (4) of the support-ring sleeve (26) and the roll shell (3) and between the support rings (4) and the central shaft (1).
- 20 8. The strand-guiding roll as claimed in claim 6 or 7, characterized in that the annular space (6) is designed as a coolant conduit, which is connected to a coolant line (12, 18) arranged in the central shaft (1) via radial branch lines (13, 17, 29, 30) for supplying 25 and discharging a coolant.
- The strand-guiding roll as claimed in one of claims 6 to 8, characterized in that the roll shell (3) is secured against rotation with respect to the shaft
 (1) by a rotation-preventing means (5), preferably a feather key, and the rotation-preventing means (5) passes through the annular space (6) and the supportring sleeve (26).
- 35 10. The strand-guiding roll as claimed in one of the preceding claims, characterized in that the coolant line (12) for supplying coolant which runs within the central shaft (1) starts from one end side of the central shaft, and the coolant line (18) for discharging coolant

arranged in the central shaft opens out at the opposite end side of the central shaft, and each coolant line (12, 18) is assigned a rotary connection piece (10, 11).

5 11. The strand-guiding roll as claimed in one of the preceding claims, characterized in that the coolant lines (12, 18) which run within the central shaft (1) open out in one end side of the central shaft, and these coolant lines are assigned a multiple rotary connection piece.